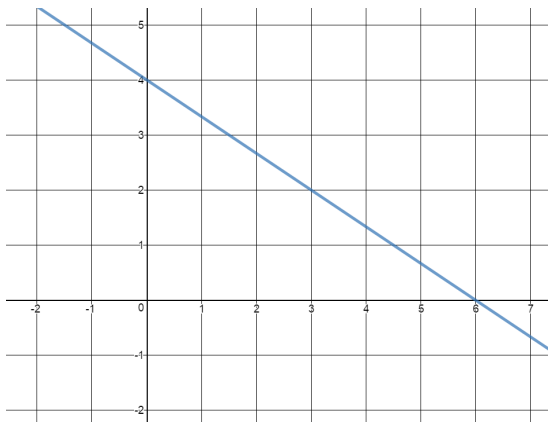
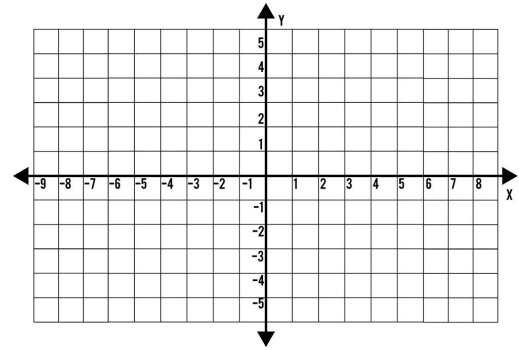


Linear Functions: Re-Engage

Graph:

$$y = -\frac{3}{2}x + 4 \quad y + 4 = 2(x - 3) \quad x + 4y = -4$$



Slope-Intercept Form

Point-Slope Form

Standard Form

slope

y-intercept

x-intercept

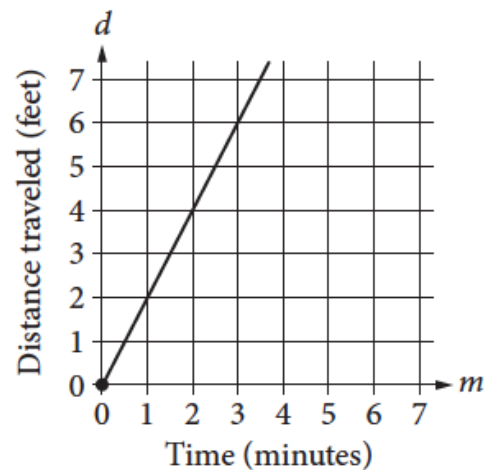
zero

As a class experiment, a cart was rolled at a constant rate along a straight line. Shawn recorded in the chart below the cart's distance (x), in feet, from a reference point at the start of the experiment and for each of 5 times (t), in seconds.

t	0	1	2	3	4	5
x	10	14	18	22	26	30

Which of the following equations represents this data?

- A. $x = t + 10$
- B. $x = 4t + 6$
- C. $x = 4t + 10$
- D. $x = 10t + 4$
- E. $x = 14t$



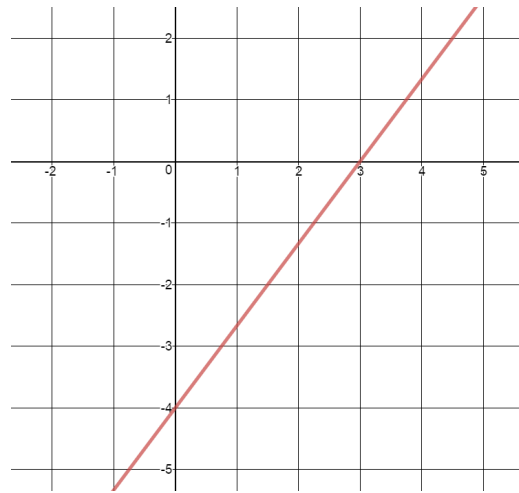
The graph above shows the distance traveled d , in feet, by a product on a conveyor belt m minutes after the product is placed on the belt. Which of the following equations correctly relates d and m ?

- A) $d = 2m$
- B) $d = \frac{1}{2}m$
- C) $d = m + 2$
- D) $d = 2m + 2$

A student graphed the following equation and made a mistake. Analyze the reasoning to see what happened.

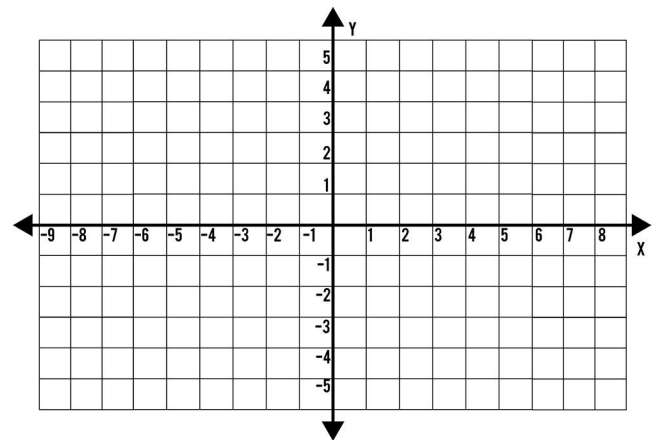
$$y = 3x - 4$$

I noticed that -4 was in the b spot in the $y = mx + b$ equation so I started at that point on the graph. Then, I noticed that the 3 was next to the x and knew it had to be the x intercept. So, I plotted a line through -4 on the y-axis and 3 on the x-axis.

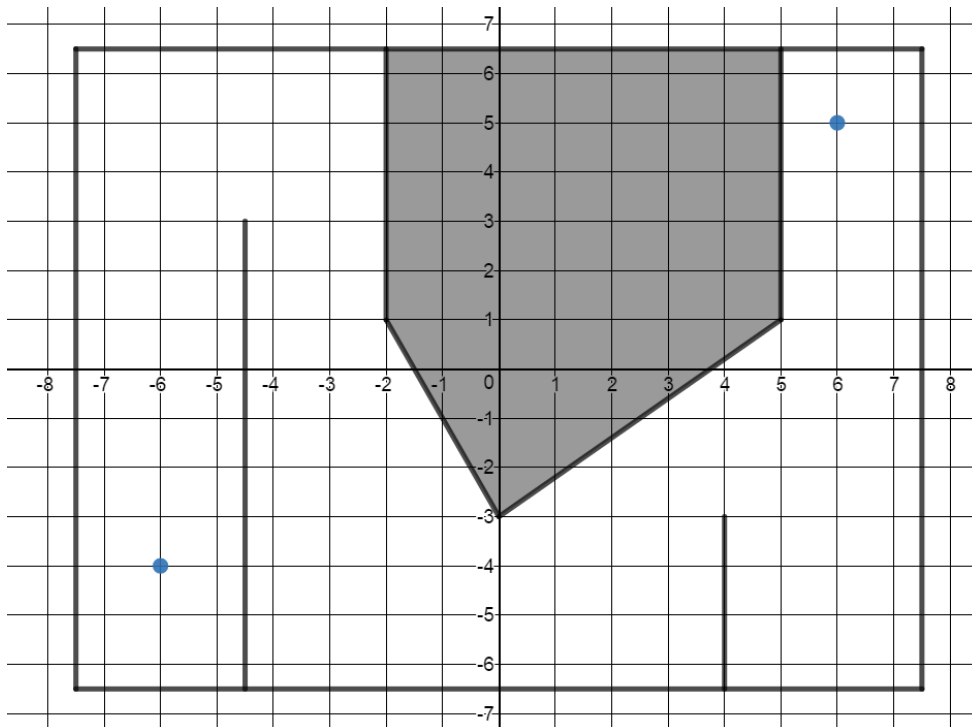


Fill in the blanks to make an equation passing through the point (3, -2).

$$\boxed{}x + \boxed{}y = \boxed{}$$



Write 4 equations that will connect the two dots → bit.ly/maze35



Equation 1

Equation 2

Equation 3

Equation 4